

**iCarsoft®**

## Multi-system Scanner Series

i980 / i960 / i930 /

i906 / i908 / i902

## USER'S MANUAL



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## **Disclaimer**

All information, illustrations, and specifications contained in this manual are based on the latest information available at the time of publication. The right is reserved to make change at any time without notice.

## **Safety Precautions and Warnings**

To prevent personal injury or damage to vehicles and/or the Multi-system Scanner, please read this user's manual first carefully and observe the following safety precautions at a minimum whenever working on a vehicle:

- Always perform automotive testing in a safe environment.
- Do not attempt to operate or observe the tool while driving a vehicle. Operating or observing the tool will cause driver distraction and could cause a fatal accident.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Operate the vehicle in a well-ventilated work area: Exhaust gases are poisonous.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while running tests.
- Use extreme caution when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- Put the transmission in P (for A/T) or N (for M/T) and make sure the parking brake is engaged.
- Keep a fire extinguisher suitable for gasoline/chemical/electrical fires nearby.
- Don't connect or disconnect any test equipment while the ignition is on or the engine is running.
- Keep this tool dry, clean, free from oil/water or grease. Use a mild detergent on a clean cloth to clean it if necessary.

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# 1 INTRODUCTION

The Multi-system Scanner Series covers the following models: Multi-system Scanner i980, Multi-system Scanner i960, Multi-system Scanner i930, Multi-system Scanner i906, Multi-system Scanner i908 and Multi-system Scanner i902, which is especially designed for the DIY users and the servicemen of small service workshop.

Featuring the color LCD display and personalized function menu, the Multi-system Scanner Series can diagnose full electronic control system of single vehicle model.

The wording “OBDII/EOBD” (refer to Figure 1-1) marked on the back of the Multi-system Scanner Series defines OBD connector, instead of OBDII/EOBD functions.



Figure 1-1

**Note:** The MULTI-SYSTEM SCANNER may automatically reset while being disturbed by strong static electricity. THIS IS A NORMAL REACTION.

## 2 Product Descriptions

### 2.1 Outline of Multi-system Scanner

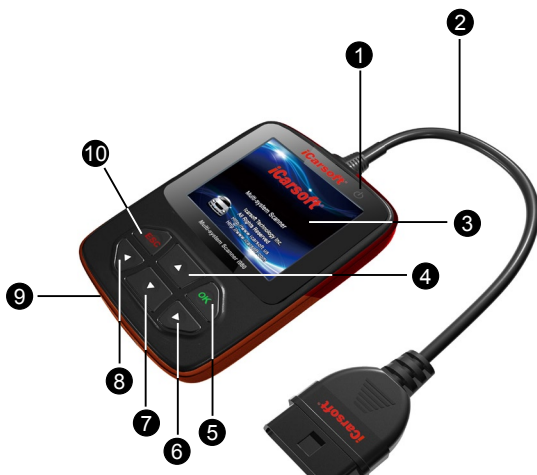


Figure 2-1

<b>1 Power Indicator</b>	Lights up when your tool is powered on.
<b>2 Cable with OBD II Connector</b>	Connects the Multi-system Scanner to the vehicle's Data Link Connector (DLC).
<b>3 LCD Display</b>	Indicates test results.
<b>4/7 UP/DOWN Button</b>	Move cursor up or down for selection.
<b>5 OK Button</b>	Confirms a selection (or action) from a menu list.

<b>6/8 RIGHT/LEFT Button</b>	Move cursor right or left for selection; Or turn page up or down when more than one page is displayed.
<b>9 USB Port</b>	Connects to computer to update the Multi-system Scanner.
<b>10 ESC Button</b>	Returns to previous menu.

## 2.2 Specifications

- 1) Screen: 2.8" TFT 262K true color, 320\*240dpi
- 2) Input voltage range: 9~18V
- 3) Operating current: <100mA@12V (Typical)
- 4) Power consumption: <1.2W (Typical)
- 5) Operating temperature: 32°F~122°F / 0°C~50°C
- 6) Storage temperature: -4°F~158°F / -20°C ~70°C @ RH60%
- 7) Outline dimension: 4.7" \* 3.2" \* 1.0" / 121\*82\*26 mm (L x W x H)
- 8) Weight : < 500g

## 2.3 Accessories

- 1) User's Manual -- Instructions on tool operations
- 2) USB cable -- Connect to a computer for upgrading online



## 2.4 Product Troubleshooting

### Vehicle Linking Error

A communication error occurs if the scan tool fails to communicate with the vehicle's ECU (Engine Control Unit). You

need to do the following to check up:

- A) Verify that the ignition is ON;
- B) Check if the scan tool's OBD II connector is securely connected to the vehicle's DLC;
- C) Verify that the vehicle is OBD2 compliant;
- D) Turn the ignition off and wait for about 10 seconds. Turn the Ignition back to on and continue the testing;
- F) Verify the control module is not defective.

### **Scan tool doesn't power up**


If the scan tool won't power up or operates incorrectly in any other way, you need to do the following to check up:

- A) Check if the scan tool's OBD II connector is securely connected to the vehicle's DLC;
- B) Check if the DLC pins are bent or broken. Clean the DLC pins if necessary.
- C) Check vehicle battery to make sure it is still good with at least 9.0 volts.

## **2.5 Power supply**

The power of the Multi-system Scanner is provided via the vehicle's Data Link Connector (DLC). Follow the steps below to power it up:

- 1) Find DLC on vehicle;

 **Note:** A plastic DLC cover may be found for some vehicles and you need to remove it before plugging the OBDII cable.

- 2) Plug the connector at the end of OBD II cable to the vehicle's DLC.

## 3 Tool Setup

### 3.1 Connection

- 1) Turn the ignition off.
- 2) Locate the vehicle's 16-pin Data Link Connector (DLC).

The DLC (Data Link Connector) is the standardized 16-cavity connector where diagnostic code readers interface with the vehicle's on-board computer. The DLC is usually located 12 inches from the center of the instrument panel (dash), under or around the driver's side for most vehicles. If Data Link Connector is not located under dashboard, a label should be there telling location. For some Asian and European vehicles, the DLC is located behind the ashtray and the ashtray must be removed to access the connector. If the DLC cannot be found, refer to the vehicle's service manual for the location.

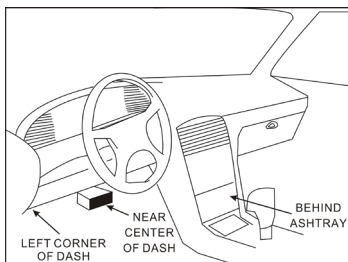


Figure 3-1

- 3) Plug the OBDII cable into the vehicle's DLC.
- 4) Turn the ignition on. Engine can be off or running.
- 5) After finishing, press [OK] button to enter Main Menu.



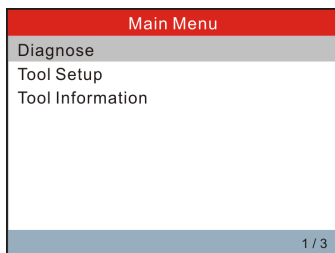


Figure 3-2

**⚠ CAUTION:** Don't connect or disconnect any test equipment with ignition on or engine running.

### 3.2 Tool Setup

This option enables you to change your interface language and turn the beeper on/off.

Select [Tool Setup] in the Main Menu and press [OK] to enter.

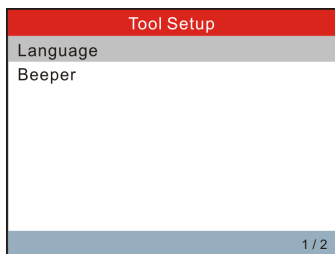


Figure 3-3

1) **Language:** To switch to the desired language.

Choose [Language] and press [OK] to enter. Use [▲] / [▼] key to select any language and press [OK] to confirm, the system will switch to the chosen language interface.

2) **Beeper:** To turn the Beeper ON/OFF.

Choose [Beeper] and press [OK] to enter. Use [▲] / [▼] to select ON/OFF and press [OK] to confirm.

### 3.3 Tool Information

This option allows you to view: boot version, display program version, diagnostic program version, serial number and register code.

Tool Information	
Boot version:	V02.00
Display program version:	V02.01
Diagnostic program version:	V11.13
Diagnostic library version:	V11.14
Serial Number:	966090001005
Register Code:	440030001747
▲ ▼ ◀ ▶ ↩ ⏪	

Figure 3-4

Press [ESC] to return to the previous screen.

## 4 Diagnose

This function is specially designed to diagnose electronic control system of single vehicle model.

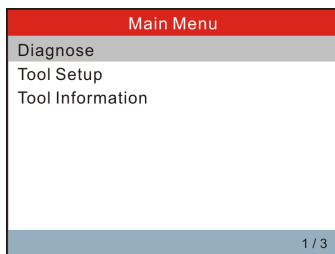
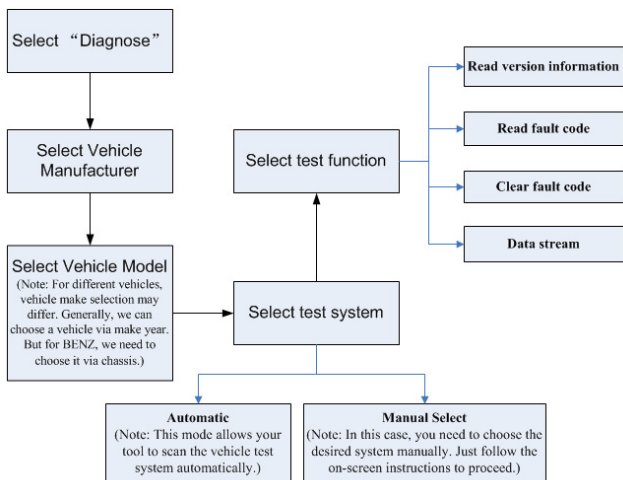


Figure 4-1

Refer to the flowchart illustrated as below to diagnose a vehicle:





*Note: For vehicles manufactured by different vendors, it is possible that it has different diagnostic menus. For details, please follow the instructions on the screen to proceed.*

## 5 Upgrading

Follow the steps described as below to proceed registration and update:

1. Go to <http://www.icarsoft.com> or <http://www.icarsoft.us> and download the update tool to the computer.



2. Run the iCarsoft\_Update\_Setup.exe file, and follow the on-screen instructions to install the update tool (compatible with Windows XP and Windows 7 operating system).
3. Launch the program when installed, a screen similar to Figure 5-1 will appear:



Figure 5-1

4. In Figure 5-1, type in the Product Serial Number which is located at the back of the tool.
5. After the serial number is entered, click Update to jump to the registration page. Enter the following information and click Submit.

A Windows-style dialog box titled "Register your icarsoft". It contains three input fields: "Your E-Mail address:", "Confirm E-Mail:", and "Register Code:". Below the fields are three buttons: "Cancel", "Submit", and "Exit".

Register your icarsoft	
Your E-Mail address:	<input type="text"/>
Confirm E-Mail:	<input type="text"/>
Register Code:	<input type="text"/>
<input type="button" value="Cancel"/> <input type="button" value="Submit"/> <input type="button" value="Exit"/>	

Figure 5-2

(If you need the Register Code, please refer to steps 6~9.)

(If you have the Register Code, directly proceed to step 10.)

6. The Register Code can be found in your tool. Connect one end of the supplied USB cord to your tool, and the other end on the computer.
7. After the tool has powered up and entered the main menu screen, move the highlight bar on the Tool Information and press the [OK] button.
8. The Register Code shown in Figure 5-3 is the Register Code needed in step 5.

Tool Information	
Boot version:	V02.00
Display program version:	V02.01
Diagnostic program version:	V11.13
Diagnostic library version:	V11.14
Serial Number:	966090001005
Register Code:	440030001747
<div>▲ ▼ ◀ ▶ ↶ ⏮</div>	

Figure 5-3

(Return to step 5 and input the Register Code and then proceed)

9. Reopen the update tool, select the updates you would like to perform, and then click Download to start downloading.

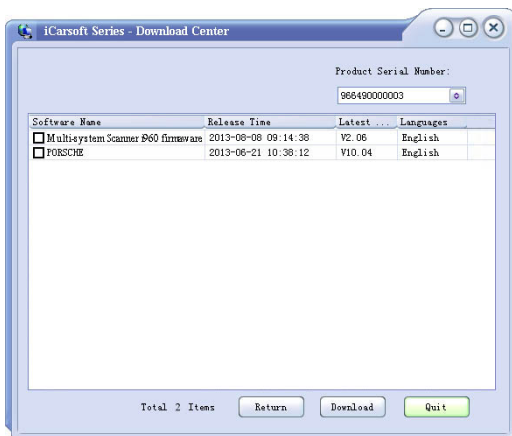


Figure 5-4

10. Once all steps are done, the registration process is complete.

## 6 FAQ

Here we list some frequently asked questions and answers relating to Multi-system Scanner.

**Question:** System halts when reading data stream. What is the reason?

**Answer:** It may be caused by a slackened connector. Please turn off the Multi-system Scanner, firmly connect the connector, and switch on it again.

**Question:** Screen of main unit flashes at engine ignition start.

**Answer:** Caused by electromagnetic disturbing, and this is normal phenomenon.

**Question:** There is no response when communicating with on-board computer.

**Answer:** Please confirm the proper voltage of power supply and check if the throttle has been closed, the transmission is in the neutral position, and the water is in proper temperature.

**Question:** Why are there so many fault codes?

**Answer:** Usually, it's caused by poor connection or fault circuit grounding.

**Note:** All pictures illustrated here are for reference and demonstration purpose only and this User's Manual is subject to change without prior notice.



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